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RF:	EG&G ROCKY FLATS, INC.
	ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000
DIST. LTR ENC	
MARAL, M.E.	
JRLINGAME, A.H.	·
JSBY, W.S.	August 04 1004
RANCH, D.B. ARNIVAL, G.J.	August 24, 1994 94-RF-862
AVIS. J.G.	
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CKSON, D.T.	
ELL. R.E.	3-J76-ER-ADM-08.05, DATA COMPLETENESS CHECK AND CONTRACT COMPLIANCE
JESTER, A.W.	SCREENING - KB-179-94
ARX, G.E.	
cDONALD, M.M. cKENNA, F.G.	Enclosed is procedure 3-J76-ER-ADM-08.05, DATA COMPLETENESS CHECK AND
ONTROSE, J.K.	CONTRACT COMPLIANCE SCREENING, and associated Department of Energy comments,
ORGAN, R.V.	
OTTER, G.L.	which have been dispositioned per Enclosure 2.
ZZUTO, V.M.	
SING, T.L. ANDLIN, N.B.	If this procedure is transmitted for regulatory approval, please notify us accordingly so
CHWARTZ, J.K.	that we may withhold issuance pending receipt of comments. If you have any questions
ETLOCK, G.H.	regarding the above, please call D. G. Breen, Environmental Project Services, at
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U.S. DEPARTMENT OF ENERGY **ROCKY FLATS OFFICE**

		RF REVIEW C	OMMENT RECORD			Page of
2. Document Reviewed: (Title, Number, Revision and Dat Data Completeness Check and Contract Compliance Screening, 3-J76-ER-ADM-08.05, Rev. 0, Draft B			3. Reviewer: Signature and Date: Organization: RFFO ER contact: D. St. Location and Phone No. T117 x602		4. Agreement v	vith dispositions: Reviewer Document Preparer
5. Comment No.	6. Comment Type	7. <u>Comments</u> (inclu	ide suggested changes)		8. <u>Dis</u>	position
1	S		ding the words <u>Analytical Laboratory</u> is too much other data at RFP that ire, and will probably require a		· .	Labotatory".
2	E		ou need DCT signatures and dates on lidate and trace the inspection	Signature to che	and date cklists	e signosss added
3	E	Section 6.1[4]: Include an ex	ample of the MPR in this procedure.			
4	E		re(s) is followed for acting on the ion at this point? What are the	see place	dure "57"	8- EK-ADM-08.05 KCG carron Sulton Kracker
5	E .	screening fit; eg: sequentially? completeness screen prior to t if documentation is missing, th	oleteness screening and the validation. It seems that SDGs will undergo the the validation. If this is the case, then the DCT needs to be contacted first to by 6.2[4], etc. Also see comments 3 ons 6.2.	BOUDASTI	uss seven package. ypth and teness wh	ing is currory & lone Valedation series valedation series value in only sequential van seen dations. Since toly do make some errors,
6	E	Section 6.2: The Contract-con Validation Technician signature in comment 2.	npliance screening will need es and dating for the same reasons as	Signatur	44. 1 0 180	Mahu same enous, est effective to

Comment Type:
E-Essential comment (agreement must be documented for other than verbatim incorporation) S-Suggested comment NON-C-Nonconcurrence, based upon the following comment

Rocky Flats Plant 3-J76-ER-ADM-08.05

REVISION 0

DATA COMPLETENESS CHECK AND CONTRACT-COMPLIANCE SCREENING

APPROVED BY: 🚾	EGStran)	1 S.G. Stiger	17-13-94
Dire	ector, \	Print Name	Date
EG	&G Environmental Restoration Program	n Division	•
	State Suh-	15 LUXER	17.12.94
Qua	lity Assurance Program Manager	Print Name	Date
Data	a Management and Reporting Services		
met.	of my knowledge, the necessary and so on Agency Approval Required: \(\square\$ Yes		
			Data.
Responsible Organizat	ion: Environmental Restoration Progran	n Division Effecti	ve Date:
CONCURRENCE BY HISTORY FILE:	THE FOLLOWING DISCIPLINES W	ILL BE DOCUMENTED IN T	HE PROCEDURE

USE CATEGORY 3

ORC review not required

The following have been incorporated in this revision: 94-DMR-000453

Periodic review frequency: 1 year from the effective date

DATA COMPLETENESS CHECK AND CONTRACT-COMPLIANCE SCREENING 3-J76-ER-ADM-08.05 REVISION 0 PAGE 2 of 48

LIST OF EFFECTIVE PAGES

Pages

Effective Date

Change Number

1-48

/ /94

TOTAL NUMBER OF PAGES: 48

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1. PURPOSE

This procedure establishes the requirements for performing data completeness checks and contract-compliance screening for Rocky Flats Plant (RFP) Environmental Restoration Program Division (ERPD) data packages in accordance with 3-J77-ER-ADM-08.03, Graded Validation.

2. SCOPE

This procedure applies to ERPD employees and subcontractors.

This procedure supports the sampling activities of ERPD and applies to all sample delivery groups (SDGs) generated by and received from laboratories performing analyses for the Sample Management Office (SMO).

This procedure addresses the following topics:

- Data completeness checks
- Contract-compliance screening

3. OVERVIEW

SDGs consist of the following items:

- Cover sheet or transmittal letter
- Case narrative specific to the SDG
- Data summary forms
- Copies of items listed on the checklists in the appendixes

All SDGs receive the data completeness check. However, only the SDGs selected for validation in accordance with 3-J77-ER-ADM-08.03 receive the contract-compliance screening.

Copies of supporting documentation are organized by SDG, and originals are maintained by the laboratories.

4. **DEFINITIONS**

<u>Contract Compliance Screening (CCS)</u>. The screen that is performed during data validation to ensure laboratory compliance with the statement of work for analytical services. This screen ensures that all requisite data and documentation are included within the SDG.

<u>Contractor Technical Representative (CTR)</u>. The primary contact(s) within the SMO with responsibility for enforcing the technical contractual obligations of the subcontractors.

4. **DEFINITIONS** (continued)

<u>Data Completeness Check</u>. The verification that is performed on laboratory data packages to ensure that the required deliverables have been submitted. This check ensures that each package contains the minimum requirements to proceed with data validation.

<u>Data Completeness Technician (DCT)</u>. The technician who performs the data completeness check.

General Radiochemistry and Routine Analytical Services Protocol (GRRASP). The statement of work for radiochemistry and general chemistry analytical services.

Missing Data Request (MDR). The formal document used to create a written record that tracks the requested missing documentation.

Missing Package Request (MPR). The formal document used to create a written record that tracks the requested missing package(s).

Package. Paperwork submitted with SDGs that may consist of:

- Quality control data.
- Raw sample data.
- Standards data.
- Raw quality control data.
- Standard preparation logs.
- Sample digestion logs.
- Resolution.
- Calibrations.

<u>Sample Delivery Group (SDG)</u>. Samples received at the laboratory in one or more shipments. Samples from more than one chain-of-custody may be combined to form a single SDG. Samples in a SDG are validated as a group.

<u>Sample Management Office (SMO)</u>. The ERPD SMO at RFP that manages the laboratory contracts, sample tracking, data receipt, data validation, and data dissemination.

<u>Subcontractor Laboratories</u>. EG&G Rocky Flats, Inc. approved offsite analytical laboratories.

<u>Validation Technician</u>. The person who performs the qualification of the data by using functional guidelines developed for the validation process.

5. RESPONSIBILITIES

5.1 <u>Data Completeness Technician</u>

Performs data completeness checks on SDGs.

Initiates MPRs.

5.2 <u>Validation Subcontractor</u>

Ensures that SDGs are complete and comply with the appropriate checklists as in the appendixes.

Manages quality records generated by this procedure.

5.3 <u>Validation Technician</u>

Performs contract compliance screening on SDGs.

Initiates MDRs.

6. INSTRUCTIONS

6.1 <u>Data Completeness Checks</u>

DCT

[1] Perform data completeness checks as SDGs are received from laboratories.

The data completeness checks do not require that the DCT be in receipt of the electronic deliverable.

- [2] Complete the appropriate data completeness checklist on:
 - Appendix 1, Radiochemistry Data Completeness Checklists.
 - Appendix 2, Organics Data Completeness Checklist, Pesticides.
 - Appendix 3, Organics Data Completeness Checklist, Volatiles/Semi-volatiles.
 - Appendix 4, Metals Data Completeness Checklist.
 - Appendix 5, Water Quality Parameters Data Completeness Checklist.
- [3] Record Yes or No beside each required item listed on the appropriate checklist.
- [4] IF the requisite documentation is missing from the SDG, THEN:
 - [A] Initiate MPRs (See Appendix 11 for sample MPR).
 - [B] Require that the laboratory respond to the MPR with the missing documentation within 3 working days of the MPR.
 - [C] Facsimile (Fax) a copy of the MPR to the SMO for evaluation.
 - [D] Verify the receipt of the missing package.
 - [E] Close the MPR when the receipt is verified.
 - [F] File the MPR with the appropriate SDG and notify the SMO that the MPR has been closed.
- IF the requisite documentation is missing from an SDG,
 AND a laboratory fails to submit the missing documentation within the required 3 working days,
 THEN notify the appropriate CTR.

6.2 <u>Contract-compliance Screening</u>

Validation Technician

[1] Perform the contract-compliance screening on selected SDGs.

Radiochemistry SDGs are segregated by instrumentation, or method, as applicable, for validation. SDGs are randomly selected for validation in accordance with 3-J77-ER-ADM-08.03.

The contract-compliance screening does not require that the validation technician be in receipt of the electronic deliverable.

- [2] Complete the appropriate contract-compliance checklist on:
 - Appendix 6, Radiochemistry Contract Compliance Checklist.
 - Appendix 7, Organics Contract Compliance Checklist, Pesticides.
 - Appendix 8, Organics Contract Compliance Checklist, Volatiles/Semi-volatiles.
 - Appendix 9, Metals Contract Compliance Checklist.
 - Appendix 10, Water Quality Parameters Contract Compliance Checklist.
- [3] Record Yes or No beside each required item listed on the appropriate checklist.
- [4] **IF** the requisite documentation is missing from the SDG, **THEN**:
 - [A] Initiate MDRs (See Appendix 12 for sample MDR).
 - [B] Require that the laboratory respond to the MDR with the missing documentation within 3 working days of the faxed request.
 - [C] Fax a copy of the MDR to the SMO for evaluation.
 - [D] Verify the receipt of the missing documentation.
 - [E] Close MDRs when the analysis is complete.
 - [F] File the MDR with the appropriate SDG and notify the SMO that the MDR has been closed.
 - [G] Validate the SDG after the missing data has been received and verified.
- IF the requisite documentation is missing from an SDG,
 AND a laboratory fails to submit the requisite documentation within the required
 3 working days,
 THEN notify the appropriate CTR.

7. RECORDS

Management of all records is consistent with 1-77000-RM-001, Records Management Guidance for Records Sources.

The records generated as a result of this procedure are considered quality records and are managed in accordance with 2-G18-ER-ADM-17.01, Quality Assurance Records Management.

There are no nonquality records generated by this procedure.

Validation Subcontractor

- [1] Manage records in accordance with 1-77000-RM-001.
- [2] Manage documentation generated as a result of this procedure in accordance with 2-G18-ER-ADM-17.01.

8. REFERENCES

1-77000-RM-001, Records Management Guidance for Records Sources

2-G18-ER-ADM-17.01, Quality Assurance Records Management

3-J77-ER-ADM-08.03, Graded Validation

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RADIOCHEMISTRY DATA COMPLETENESS CHECKLISTS Alpha Spectrometry

		Technician	Date
	•	·	
H.		Sample Data Package	
G.		Resolution Package	
F.		Lab Control Samples (LCSs) Data Package	
E.		Lab Replicate Sample Data Package	
D.		Laboratory Blanks Data Package	
C.		Calibrations Data Package	
В.	 .	Case Narrative Copy of Chain of Custody	
A.		Cover Sheet or Transmittal Letter	

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APPENDIX 1

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Tritium

	Technician	Date
H.	Sample Data Package	
G.	 Quench and Efficiency Package	
F.	 LCSs Data Package	
E. ,	 Replicate Sample Data Package	
D.	Background Water and Preparation Blanks Dat	a Package
C.	 Calibration and Instrument Performance Verific	cation Data Package
B.	 Case Narrative Copy of Chain-of-Custody	
A.	 Cover Sheet or Transmittal Letter	

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APPENDIX 1

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Gamma Spectrometry

	Technician	Date	
		/	
F.	 Sample Data Package		
E.	 LCSs Data Package	:	
D.	 Laboratory Blanks Data Package		
C.	 Instrument Performance Verification Package		
B.	 Case Narrative Copy of Chain-of-Custody		
A.	 Cover Sheet or Transmittal Letter		

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APPENDIX 1

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Gross Alpha and Beta

A.		Cover Sheet or Transmittal Letter		
В.		Case Narrative Copy of Chain-of-Custody		
C.		Gross Alpha Self-absorption Curve Data Package Gross Beta Self-absorption Curve Data Package		
D.		Gross Alpha Instrument Performance Verification l Gross Beta Instrument Performance Data Package	Oata Package	
E.		Gross Alpha Laboratory Blanks Data Package Gross Beta Laboratory Blanks Data Package		
F.		Gross Alpha Lab Replicate Sample Data Package Gross Beta Lab Replicate Sample Data Package		
G.		Gross Alpha LCSs Data Package Gross Beta LCSs Data Package		
H.	·	Gross Alpha Sample Data Package Gross Beta Sample Data Package		
	•	Technician	Date	

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226 Radium by Radon Emanation

		Technician	Date
H.		Sample Data Package	
G.	<u></u>	Cell Constant Data Package	
F.		LCSs Data Package	
E.		Replicate Sample Data Package	
D.		Laboratory Blanks Data Package	et e et enamente e e
C.	·	Calibration and Instrument Performance Verificat	tion Data Package
В.		Case Narrative Copy of Chain-of-Custody	
A.	<u></u>	Cover Sheet or Transmittal Letter	

Page 6 of 8

Radiometric Strontium, Cesium, and ²²⁸Radium by Gas Proportional Counter (GPC)

A.		Cover Sheet or Transmittal Letter
B.	·	Case Narrative Copy of Chain-of-Custody
C.		Strontium Initial Calibration Data Package Cesium Initial Calibration Data Package 228 Ra Initial Calibration Data Package
D.		Instrument Performance Verification Data
E.		Strontium Laboratory Blanks Data Cesium Laboratory Blanks Data 228 Ra Laboratory Blanks Data Package
F.		Strontium Replicate Sample Data Package Cesium Replicate Sample Data Package ²²⁸ Ra Replicate Sample Data Package
G.		Strontium LCSs Data Package Cesium LCSs Data Package 228 Ra LCSs Data Package
Н.		Strontium Chemical Recovery Factors Package Cesium Chemical Recovery Factors Package Ra Chemical Recovery Factors Package
I.		Strontium Efficiency Factors Data Package Cesium Efficiency Factors Data Package 228 P. A. Efficiency Factors Data Package

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APPENDIX 1

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Radiometric Strontium, Cesium, and ²²⁸ Ra	adium by Gas Proportional
Counter (GPC) (contin	nued)

J.	 Strontium Sample Data Package	
	 Cesium Sample Data Package	•
	 ²²⁸ Ra Sample Data Package	
	Technician	Date

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APPENDIX 1

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Total Uranium by KLP

A.		Cover Sheet or Transmittal Letter	
В.		Case Narrative Copy of Chain-of-Custody	
C.		Calibrations, Background, and Reference Cell Data Package	
D.		Laboratory Blanks Data Package	
E.	 ·	Lab Replicate Sample Data Package	
F. ·	· .	LCSs Data Package	
G.		Sample Data Package	
		/	_
		Technician Date	

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APPENDIX 2

Page 1 of 1

ORGANICS DATA COMPLETENESS CHECKLIST Pesticides

A.		Cover Sheet or Transmittal Letter (one per data	package shipment)	
В.		Case Narrative Copy of Chain-of-Custody		
C.	a Avender	Quality Control (QC) Summary Package		
D.	<u> </u>	Sample Data Package (Alphanumerically)		
E.		Standards Data Package (Chronologically by Golumn and Instrument)	as Chromatograph	
F.	 	Raw QC Data Package		
G.		Sample Tracking Package		
		Technician	Date	

Page 1 of 1

ORGANICS DATA COMPLETENESS CHECKLIST Volatiles/Semi-volatiles

A.		Cover Sheet or Transmittal Letter (one per da	ta package shipment)
В.	·	Case Narrative Copy of Chain-of-Custody	
C.		QC Summary Package	
D.		Sample Data Package (Alphanumerical)	
E.		Standards Data Package (Chronologically by	Instrument)
F.		Raw QC Data Package	
G.	:	Sample Tracking Package	
			· /
		Technician	Date

Page 1 of 1

METALS DATA COMPLETENESS CHECKLIST

A.		Cover Sheet or Transmittal Letter (one per da	nta package shipment)
В.		Case Narrative Copy of Chain-of-Custody	,
C.	· · · · · · · · · · · · · · · · · · ·	Quality Control Summary Package	
D.	· · · · · · · · · · · · · · · · · · ·	Raw Data Package Inductively Coupled Plasma Atomic Absorption (AA) Da Toxicity Characteristic Leac Data Package	ta Package
E.		Sample Digestion Logs Package	
F.	-	Standard Preparation Logs Package	
G.		Sample Description Package	
	•		1
		Technician	Date

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APPENDIX 5

Page 1 of 1

WATER QUALITY PARAMETERS DATA COMPLETENESS CHECKLIST

A.	Case Narrative or Chain-of-Custod	
B.	 Quality Control Summary Package	
C.	 Raw Data Package	\$P
D.	 Standard Preparation Logs Package Instrument Run Logs Package (where applicable)	
	Technician	/ Date

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RADIOCHEMISTRY CONTRACT COMPLIANCE CHECKLIST Alpha Spectrometry

Α.	 Case Narrative	
		Copy of Chain-of-Custody
		SDG Number; cross reference lab sample
	•	identification (ID) to client ID
	<u> </u>	Preparation Batch Code
		Abnormalities, reanalyses, or standard operating
		procedure (SOP) deviations explained
		Matrix problems explained
		Instrument problems explained
		Failure to achieve required detection limits (RDLs)
		· · · · · · · · · · · · · · · · · · ·
B.	Calibrations Da	ata Package
		Detector ID
		Spreadsheet with dates of last efficiency check
		including: disintegration per minute (DPMs) of
•		check sources; counts obtained; count duration; and,
		channels selected for regions of interest (ROIs)
		Proper channel numbers of isotopes of interest,
		based on calibration data of plutonium (Pu),
		americium (Am), and uranium (U) standards
		Total memory (channels per detector)
		Spreadsheet with dates of last background including:
		count duration; counts obtained; and channels
		selected for ROIs
_		
C.	 Laboratory Bla	
		Detector ID
		Analysis date
		Aliquot
	-	Blank ID
		Aliquot
		Calculated activities, uncertainties, and minimum
		detectable activity (MDA)

Page 2 of 19

Alpha Spectrometry (continued)

D.		Lab Replicat	e Sample Data	
		· · · · · · · · · · · · · · · · · · ·	Detector ID	
			Date replicate(s) were a	nalyzed
			Replicate IDs	
	·-		Count duration of replic	ate(s)
			Aliquot	
	-		Calculated activities, un	certainties, and MDA
E.	-	Lab Control	Samples (LCSs) Data	
			Detector ID	
		<u>.</u>	Aliquot	•
			Date LCSs were analyze	ed .
			LCS ID	
			Observed activities, unc	ertainties, and MDA
		·	Expected activities with	uncertainty
F.		Resolution		
			System gain (in keV/Ch	annel)
			Full Width Half Maxim	um (FWHM) (in channels or keV)
			for isotopic tracer	
			Energy range of the alph	na detection system (keV)
G.		Sample Data	Package	
			Printed report of results	including: sample IDs; detector
			IDs; interesting isotopes	; counts obtained and count
			duration; background co	ounts and count duration; isotopic
			tracer counts obtained; l	OPMs of tracer used; aliquots of
		•	samples; detector efficie	ency; chemical recoveries;
			calculated activities and	uncertainties
				/
			Technician	Date

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Tritium

Α.		Case Narrative
		Copy of Chain-of-Custody
		SDG number; cross reference lab sample ID to client ID
		Preparation Batch Code
		Abnormalities, reanalyses, or SOP deviations explained
		Matrix problems explained
		Instrument problems explained
		Improper preservation explained
	.*	RDLs met, explained if not met
B.		Calibration and Instrument Performance Verification Data Package
		Instrument ID number, manufacturer, and model number,
		with program settings
		Date of performance check
		National Institute of Standards and Technology (NIST)- traceable
		reference material certificates with expiration date and DPM activity
		of unquenched standard
		Raw data from instrument
		Efficiency obtained for unquenched standard
		Quench monitor values and counts per min. (CPM) for standard used
		to check long term performance of cocktail and instrument
	•	Background water and preparation blank vials CPMs
C.		Background Water and Preparation Blanks Data
		Instrument ID
		Date background water and preparation blanks were analyzed
		Aliquot of background water and preparation blanks

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Tritium (continued)

D.		Replicate Sample	Data
		Ir	nstrument ID
		D	Pate analyzed
		D	sistillation date
		S	ample IDs
•		· C	ount duration
	٠	A	liquot
		C	alculated activities, uncertainties, and MDAs
E.	•	Lab Control Samp	oles (LCSs) Data
			nstrument ID
		D	pate analyzed
	•		O of LCS, ID of spike concentrate used to prepare LCS,
			nd expected value with uncertainty
			alculated activities, uncertainties, and MDAs
F.		Quench and Effici	iency
		Ir	nstrument ID
	•	Q	uench monitor used
		Q	uench monitor values and efficiency values
	-	D	ate of last quench curve check
		E	fficiency standard and backgrounds used
		V	olume added to cocktail, cocktail used, and vials used
			nstrument settings used when efficiencies and quench curve were analyzed
			olume of spike added to cocktail for internal
			andardization method
		מ	est fit curve coefficients for quench curve method

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APPENDIX 6

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Tritium (continued)

G.	 Sample Data	a Package	
	 	Printed report of results f	or sample, reruns
		counts, background coundate, count date, count date, count date, count du activities, uncertainties, a	neet including: sample IDs, sample its, sample aliquot, distillation aration, instrument efficiency, and and MDAs copies of notebook pages
		Instrument counting logs	
		Technician	Date

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Gamma Spectrometry

A.		Case Narrative	
			Copy of Chain-of-Custody
	•		SDG Number; cross reference lab sample ID to client ID
			Preparation Batch Code
		·	Abnormalities, reanalyses, or SOP deviations explained
			Detector problems explained
			RDLs met, explained if not met
В.	· 	Biannual Energ	y Calibration
	•		Detector ID
		·	Date of the calibration check; channel by channel printout; identification and DPS values of checksources; counts and count duration; calibrated energy (in keV) for each peak of interest; calibrated centroid channel number for each peak of interest; observed channel number for each peak of interest; offset value; and, calculated slope from the least squares fit of the calibration data FWHM of the peaks Energy range (in keV) of the gamma detection system; channels of memory
C.		Biannual Effici	ency Calibration
			Detector ID
			Date of the efficiency calibration to include: geometry,
			matrix, weight for which the efficiency curve is
			constructed; line intensity of each nuclide of interest;
			counts per second observed for each peak of interest;
			identification, certification, expiration dates and DPS
			values of checksource; observed efficiency, observed
			energy, observed channel number of each nuclide; and plot
			of energy versus efficiency
			Integrated area of the neak ROIs: count duration

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Gamma Spectrometry (continued)

D.		Instrument P	erformance Verification
		····	Daily energy checksource raw data submitted with each
			SDG
			Daily efficiency verification performed with same source
		. •	and submitted with each SDG
		***	Dates of last background spectra including: spectra and/or
			channel by channel printout; count duration; counts
			obtained for the peak ROIs; and compared to a long term
			background spectra
		,	
E.		Laboratory B	
			Detector ID
			Blank ID
			Background counts and count duration
			Blank counts and count duration of blanks
			Date blanks were analyzed
			Aliquot, weight, matrix, and geometry
			Calculated activities, uncertainties, and MDA
F.		LCSs Data	
			Detector ID
			Analysis date
			ID, aliquot, weight, and geometry of LCS
			LCS counts and count duration
			Background counts and count duration
			Calculated activities, uncertainties, and MDA
			Expected value of LCSs with uncertainty

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APPENDIX 6

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Gamma Spectrometry (continued)

G.	 Sample Data	Package		
		Printed report of results for	or samples and reruns	
		analysis; sample ID; name and count duration; backs energy and channel numb	eet including: detector ID; date of soft nuclides detected; counts ground counts and count duration for each analysis; FWHM of 12th, matrix, and geometry of the	1;
			ctivities, uncertainties, and MDA	
			/	
		Technician	Date	

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APPENDIX 6

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Gross Alpha and Beta

Α	Case Narrative	·			
		Copy of Chain-of-Custody			
		SDG Number; cross reference lab sample ID to client ID			
		Preparation Batch Code			
		Abnormalities, reanalyses, or SOP deviations explained			
•		Matrix problems explained			
	·	Instrument problems explained			
		RDLs met, explained if not met			
В	Gross Alpha Se	elf-Absorption Curve Data Package			
	Gross Beta Seli	Gross Beta Self-Absorption Curve Data Package			
	<u>Alpha</u>	<u>Beta</u>			
	<u> </u>	Detector ID			
	·	Date and time curve generated, curve checked			
		Radionuclide standard name, NIST certification and			
		expiration dates, and DPM value			
		Aliquot of standards used			
•		Raw data from counters showing counts obtained and count			
		duration for each weight of salt			
•		Weights of salts			
		Efficiencies			
		Best fit curve coefficients			

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Gross Alpha and Beta (continued)

C.		Gross Alpha	a Instrumer	ment Performance Verification Data		
				nt Performance Data		
•		<u>Alpha</u>	<u>Beta</u>			
				Detector ID		
				Date of verification check,		
				Reliability checksource name, NIST certification, expiration and DPM activity		
,				Raw data from counters showing counts obtained and count duration for reliability checksource		
				Efficiency obtained for checksource		
				Background counts obtained and count duration for		
				each detector		
D.				ry Blanks Data		
			-	Blanks Data		
		<u>Alpha</u>	<u>Beta</u>			
		 -		Detector ID		
			· · .	Analysis date		
				Count duration		
				Aliquot		
				Calculated activities, uncertainties, and		
				MDAs		
				Blank ID and matrix used		
E.		Gross Alpha Lab Replicate Sample Data				
		Gross Beta	Lab Replic	ate Sample Data		
	•	<u>Alpha</u>	<u>Beta</u>			
		· .		Detector ID		
				Analysis date		
				Replicate IDs		
				Count duration		
	•		_	Aliquot		
				Calculated activities, uncertainties, and		
				MDAs .		

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$\underline{\mathbf{APPENDIX}\ \mathbf{6}}$

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Gross Alpha and Beta (continued)

F	Gross Alph	na LCSs Data	
	Gross Beta	LCSs Data	•
	<u>Alpha</u>	<u>Beta</u>	•
			Detector ID
			Analysis date
			LCS IDs
			Expected value obtained for LCSs with
			uncertainty
	·		Aliquots
	•		Calculated activities, uncertainties, and
			MDAs
	•		Count duration
		ia Sample Data I Sample Data Pa	
•	<u>Alpha</u>	<u>Beta</u>	
			nted report of results for sample, reruns
			w data from counter, copies of notebook pages
			lculation sheets including: Sample ID; Detector ID;
			nple and background counts; count duration; aliquot;
	•		alysis date; planchet weight; detector efficiency; activities;
		une	certainties; and MDAs
		Technician	Date

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· 226 Radium by Radon Emanation

A.	·	Case Narrative	
			Copy of Chain-of-Custody
			SDG Number; cross reference lab sample ID to client ID
			Preparation Batch Code
•		· ·	Abnormalities, reanalyses, or SOP deviations explained
			Matrix problems explained
			Instrument problems explained
	•	·	RDLs met, explained if not met
В.		Calibration and	Instrument Performance Verification Data Package
,	•		Detector ID
			Calibration dates for each detector
			Identification, certification dates, expiration date, and DPM
			values of the standard reference material used to prepare
			standards
			Raw data from counters showing counts obtained and count duration for standards
			Midpoint voltage of the plateau curve for the photomultiplier tube
			Statistical analysis of the weekly checksources
	٠		Background counts obtained for each Lucas-type cell with count duration
C.		Laboratory Blan	ks Data
		•	ID of each cell/instrument combination used
			Analysis date
			Blank ID and matrix used
			Aliquot
			Calculated activities uncertainties and MDAs

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APPENDIX 6
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226 Radium by Radon Emanation (continued)

D.		Replicate Sar	nple Data	
			ID of each cell/instrument of	combination used
			Analysis date	
			Count duration	
	•		Aliquot	
		·	Calculated activities, uncert	ainties, and MDAs
E.		LCSs Data		
		<u> </u>	ID of each cell/instrument of	ombination used
			Analysis date	
			LCS ID	
~	•		LCS expected activity and a	incertainty
			LCS activities, uncertainties	
F.		Cell Constant	: Data Package	
			ID of each cell or instrumer	it combination used
			Concentration in pCi/l of so	lutions used in standard
			bubblers	
	•		Time interval between initia	al and final deemanations
			Counts obtained and count	duration of standard for each
			cell or instrument combinat	ion
			Efficiency obtained for each	cell or instrument combination
			Results of statistical evaluat	ion of cell or instrument
		,	efficiencies	
G.	w	Sample Data	Package	
			Printed report of results obt	ained for samples
			Computer calculations shee	
			-	nt combination identification;
				counts; count duration; aliquot;
				tervals between initial and final
				s between final deemanation and
			counting; calculated sample	activities, uncertainties; and
			MDAs	
			Technician	Date

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Total Radiostrontium, Total Radiocesium, and Radium-228 by Gas Proportional Counter (GPC)

A	Case Narrativ	ve
		Copy of Chain-of-Custody
•		SDG Number; cross reference lab sample ID to client ID
		Preparation Batch Code
		Abnormalities, reanalyses, or SOP deviations explained
		Matrix problems explained
•		Instrument problems explained
•		RDLs met, explained if not met
В.	Strontium Ini	tial Calibration Data Package
		Il Calibration Data Package
 		l Calibration Data Package
		Canonation Data Lackage
<u>Sr</u>	<u>Cs</u>	<u>Ra-228</u>
		Detector ID
		Date and time calibrated, calibration check
		Radionuclide standard ID, NIST certification
		and expiration dates, and DPM value
		Aliquot of standards used
		Raw data from counters showing counts
		obtained and count duration for each weight of salt
		Weights of salts
		Efficiencies
		Best-fit curve coefficients
		Carrier weights added to planchets
		Carrier weights added to pranenets

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Total Radiostrontium, Total Radiocesium, and Radium-228 by GPC (continued)

C.		Instru	ıment Pe	erformance Verif	ication Data			
			Detector ID					
				Date of verific	cation check			
				Reliability che	ecksource name, NIST certification,			
				expiration and	I DPM activity			
				Raw data from	n counters showing counts obtained and coun			
				duration for re	eliability checksource			
	•			Efficiency obt	ained for checksource			
				Background c	ounts obtained and count duration for each			
				detector				
D.		Stron	tium Lal	boratory Blanks	Data			
		Cesiu	ım Laboi	ratory Blanks Da	ta			
		Ra-22	28 Labor	ratory Blanks Da	ta Package			
		<u>Sr</u>	<u>Cs</u>	<u>Ra-228</u>				
					Detector ID			
					Analysis date			
					Blank IDs and matrix used			
					Aliquot			
					Calculated activities, uncertainties, and			
					MDAs			
					Count duration			
E.		Stron	tium Re	plicate Sample D	ata			
		Cesiu	ım Repli	cate Sample Dat	a			
		Ra-22	28 Replie	cate Sample Data	1			
		<u>Sr</u>	<u>Cs</u>	<u>Ra-228</u>				
					Detector ID			
					Analysis date			
					Replicate IDs			
					Count duration			
					Calculated activities, uncertainties, and			
					MDAs			
					Aliquot			

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Total Radiostrontium, Total Radiocesium, and Radium-228 by GPC (continued)

F			tium LC ım LCSs	Ss Data Data	
		Ra-22 <u>Sr</u>	28 LCSs <u>Cs</u>	Data Ra-228	
					Detector ID
					Analysis date
					LCS IDs
					Expected value obtained for LCSs with uncertainty
	•				Calculated activities, uncertainties, and
					MDAs
					Count duration
G.				emical Recove	•
		Ra-22	28 Chem	nical Recovery	Factors
		<u>Sr</u>	<u>Cs</u>	<u>Ra-228</u>	
		·			Aliquot
					Amount of carrier added to the sample
					Weight of sample precipitate
				 	Results of Atomic Absorption analysis if the
					amount of stable strontium exceeded a few milligrams
					Fractional chemical recovery of the nuclide
					of interest

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Total Radiostrontium, Total Radiocesium, and Radium-228 by GPC (continued)

H.	 . '	Cesium Efficie	ncy Factor	tors Data Package s Data Package s Data Package
	 <u>Sr</u>	<u>Cs</u>	Ra-228	Certification date and DPM value of the standard Aliquot of standards Net CPMs obtained for standards Count date Efficiency derived from latest self-absorption curve
I.	 (Strontium Sample Cesium Sample Ra-228 Sample	Data Pac	kage
,	<u>Sr</u>	<u>Cs</u>	Ra-228	Printed report of results for sample, reruns Raw data from counter, copies of notebook pages Calculations sheet including: Sample ID, detector ID, obtained sample and background counts and count duration observed, aliquot of sample, analysis date or time weights of solids counted, detector efficiency, activities, uncertainties, and MDAs Precipitation date or time
			Technicia	n Date

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Total Uranium by Kinetic Laser Phosphorescence

A.		Case Narrative	
			Copies of Chain-of-Custody
			SDG Number; cross reference lab sample ID to client ID
			Preparation Batch Code
		. <u> </u>	Abnormalities explained
		,	Matrix problems explained
		:	Instrument problems explained
В.		Calibrations, Ba	ackground, and Reference Cell Data Package
			Instrument ID
			Dates of last calibration including: analyzer output; reference cell preparation; standard reference material certificates and DPMs of calibration and reference cell solutions.
			Date of last background measurement including: intensity
			(pulses) obtained; midpoint standard used for background average activity and uncertainty obtained for the last ten
		. •	backgrounds
C.		Laboratory Blan	nks Data
			Instrument ID
	•		Analysis date
			Blank ID and matrix used
			Aliquot
			Instrument output obtained
			Calculated activities, uncertainties, and MDAs

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Total Uranium by Kinetic Laser Phosphorescence (continued)

D.		Lab Replicat	e Sample Data	
			Instrument ID	
			Analysis date	
			Replicate ID	·
			Instrument output obtain	ed
٠.			Aliquot	
			Calculated activities, und	certainties, and MDAs
E.		LCSs Data		
			Instrument ID	
			Analysis date	
			LCS ID	
			Instrument output	
			Expected LCS value with	h uncertainty
			Calculated activities, unc	certainties, and MDAs
F.		Sample Data	Package	•
			Printed report of results	for samples and reruns
	••		Calculations sheet include	ling: sample IDs; instrument ID;
			instrument output obtain	ed for samples; preparation volume of
			samples; aliquot of samp	les and QC samples; activities
			and uncertainties obtained	d
			Technician	Date

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ORGANICS CONTRACT COMPLIANCE CHECKLIST PESTICIDES

Α	Cover Sheet/I	ransmittal Letter (one per data package shipment)
<u></u>	Case Narrative	
В	Quality Contro	ol Summary Package
	••	Pesticide Surrogate Recovery (Form 2E, 2F)
•• ••		MS/MSD Recovery (Form 3E, 3F)
		Method Blank Summary (Form 4C)
C	Sample Data I	Package (Alphanumerically)
		Pesticide Organics Analysis Data Sheet (Form 1D)
		GC Chromatograms
		Data System Printouts (Quantitation Reports)
D	Standards Dat	a Package (Chronologically by GC Column and
	Institu.	Pesticide Initial Calibration of Single Component Analytes
	,	(Form 6D)
•		Pesticide Initial Calibration of Single Component
		Analytes (Form 6E)
		Pesticide Initial Calibration of Multicomponent Analytes
		(Form 6F)
		Pesticide Analyte Resolution Summary (Form 6G)
		Pesticide Calibration Verification Summary (Form 7D)
	*************************************	Pesticide Calibration Verification Summary (Form 7E)
		Pesticide Analytical Sequence (Form 8D)
		Pesticide Florisil Cartridge Check (Form 9A)
		Pesticide GPC Calibration (Form 9B)
		Pesticide Identification Summary for Single Component
		Analytes (Form 10A)
		Pesticide Identification Summary for Multicomponent
		
•		Analytes (Form 10B)
	 	GC Chromatograms Peter System Printents (Opentitation Penerts)
		Data System Printouts (Quantitation Reports)
		GPC Calibration Data

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APPENDIX 7

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Organics Contract Compliance Checklist (Continued)

E.		Raw QC Data	Package	
			Method Blan	k Data
	•	•		Pesticide Organics Analysis Data Sheet
			•	(Form 1D)
				GC Chromatograms
				GC Data System Printouts (Quantitation
				Reports)
			Matrix Spike	Matrix Spike Duplicate Data
				Pesticide Organics Analysis Data Sheet
				(Form 1D)
				GC Chromatograms
			· ·	GC Data System Printouts (Quantitation
				Reports)
F.		Sample Tracki	ng Package	·
			Chain-of-Cus	tody Records
	•		Sample Prepa	tration/Extraction Logbook Pages/Benchsheets
			Instrument R	un Logs
			•	
		•		
			Technician	Date

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ORGANICS CONTRACT COMPLIANCE CHECKLIST Volatiles/Semi-Volatiles

Α.		Cover Sheet/Transmittal Letter (one per data package shipment) Case Narrative
B.	<u> </u>	Quality Control Summary Package
		Volatile System Monitoring Compound Recovery (Form 2A 2B)
•	• • •	Semivolatile Surrogate Recovery (Form 2C, 2D)
		Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recovery (Form 3A - 3D)
	•	Method Blank Summary (Form 4A, 4B)
		Organic Instrument Performance Check Bromofluoro benzene (BFB) (Form 5A)
		Organic Instrument Performance Check DFTPP (Form 5B)
		Internal Standard Area and Retention Time (RT) Summary
		(Form 8A - 8C)
C.		Sample Data Package (Alphanumerical)
		Organics Analysis Data Sheet (Form 1A - 1C)
		Organics Analysis Data Sheet TICs (Form 1E - 1F)
		Reconstructed Ion Chromatograms (RICs)
		Quantitation Reports
		Mass Spectral Data
		NIST/EPA/MSDC Mass Spectral Library Search for TICs
D.		Standards Data Package (Chronologically by Instrument)
		Organics Initial Calibration Data (Form 6A - 6C)
	. •	Continuing Calibration Check (Form 7A - 7C)
•		Standard RICs
		Standard Quantitation Reports
		GPC Calibration Data

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APPENDIX 8

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Volatiles/Semi-volatiles (continued)

E	Raw QC Data Package				
-			riphenyl phosphine (DFTPP) and BFB Tuning		
			Bar Graph Spectrum		
			Mass Listing		
		·	RIC		
		Method Blan	k Data (Chronologically)		
,•			Organics Analysis Data Sheet (Form 1A - 1C)		
	•		Organics Analysis Data Sheet TICs (Form-1E1F		
			RICs		
			Quantitation Reports		
			Mass Spectral Data		
			NIST/Environmental Protection Agency		
			(EPA)/MSDC Mass Spectral Library Search		
			for Tentatively Identified Compounds		
		•	(TICs)		
		Matrix Spike	/Matrix Spike Duplicate Data		
	· · · · · · · · · · · · · · · · · · ·		Organics Analysis Data Sheet (Form 1A - 1C)		
			RICs		
			Quantitation Reports		
F	Sample Track	king Package	·		
		COC Record	s		
		Sample Prepa	aration/Extraction Logbook Pages/Benchsheets		
		Instrument R	un Logs		
		Technician	Date		

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METALS CONTRACT COMPLIANCE CHECKLIST

A:		Cover Sheet/ Case Narrativ		tter (one per data pa	ckage shipment)	
B.		Forms				
			Inorganic A	Analysis Data Sheets	s (Form 1)	
	•		-	•	tion Results (Form 2A)	
			Contract Re	equired Detection L	imit (CRDL) Standard for A	A
	•		and ICP (F	- ·.		
		· ·	Blank Anal	ysis Results (Form	3)	
				rence Check Sample		
			Spiked San	nple Recovery Resu	lts (Form 5A)	
			•	•	covery Results (Form 5B)	
		· .	-	Sample Results (For		
			-	Control Sample Re		
			Standard A	ddition Result (Forr	n 8)	
			ICP Serial	Dilution Results (Fo	orm 9)	
			Instrument	Detection Limits (F	form 10)	
	••		ICP Interel	ement Correction Fa	actors (Form 11A, 11B)	
			ICP Linear	Ranges (Form 12)		
	-		Preparation	Log (Form 13)		
			Analysis R	un Log (Form 14)		
C.		Raw Data				
Ů.		Turi Dulu	ICP Raw D	ata	•	
	<i>i</i> *		Flame Emi	ssion AA Raw Data	•	
			Graphite Fu	ırnace AA Raw Dat	a	•
			Mercury Ra			
D.		Sample Diges	stion Logs			
			ICP/Flame	Digestion Logs		
				imace Digestion Lo	gs	
			Mercury D	igestion Logs		
E.		Standard Prep	paration Logs			
		Standard Sou	rce and Expira	tion Dates		
		Percent Solid	s Calculations	(Solids only)		
F.	<u></u>	Chain-of-Cus	tody Records			
		Sample Descri	- ·		,	
		_				
				Technician	Date	

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WATER QUALITY PARAMETERS CONTRACT COMPLIANCE CHECKLIST

		Case Narrati	ve
			Water Quality Parameters (WQP) Analysis Data Package Cover Sheet
В.		Forms	
			Sample Analysis Results Summary (Form I or equivalent)
	; ·		Initial and Continuing Calibration Verification (Form II or equivalent)
			Blank Results (Form III or equivalent)
			Spiked Sample Results (Form IV or equivalent)
			Laboratory Replicate Results (Form V or equivalent)
		<u> </u>	Laboratory Control Sample Results (Form VI or
			equivalent)
			Sample Preparation (Form VII or equivalent)
C.		Raw Data	
			Samples
			Instrument Calibration Raw Data Results
			Calibration Standards
			Initial Calibration Verification (ICV)
			Continuing Calibration Verification (CCV)
			Method Blanks
			Initial Calibration Blank (ICB)
			Continuing Calibration Blank (CCB)
			Spikes
			Duplicates
			LCS
D.		Other	
			Standard Preparation Logs
			Percent Solids Calculations (Solids only)
			Chain-of-Custody Records
			Instrument Run Logs (where applicable)
			Technician Date

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APPENDIX 11

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MISSING PACKAGE REQUEST (SAMPLE)				
Laboratory Contact:				
REQUEST				
Project #:		SDG/Batch #:		
Contact History:				
Contact# Date of Request	Request Format	Individual Contacted		
	• Programme			
(1)	Phone / Fax / Letter			
(2)	Phone / Fax / Letter			
(3)	Phone / Fax / Letter			
•				
RECEIPT				
Date Resubmittal Data Received:				
_				
VERIFICATION				
Data Verified By:		Bale Verified:		
Are the resubmittal data adequate	? Yes/Mo			
	. B. V.	adicate Request Continuance and this Form # at the top of it.		
Original Data Package How Copy-LTR, Pink Copy-Laboratory Contact				
•	Y			
Laboratory:		Project #:		
Laboratory SDG/Batch#:				
Deficiency Identified By		Date Deficiency Identified:		
Date of Laboratory Contagnation (Fr	Top Half of Form):			
Fraction: Organics / Metals / Ra	dochemistry / Water Qu	ality Parameter:		
Describe the deficiency				
	· · · · · · · · · · · · · · · · · · ·			
Original Date	Package Yellow Conv.	CTR Pink Copy-Laboratory Contact		

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APPENDIX 12

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MISSING DATA REQUEST (SAMPLE)				
Laboratory	Contact:			
REQUEST	•			
	Project #:		SDG/Batch #:	
Contact His	story:			
Contact#	Date of Request	Request Format	Individual Contacted	
	• • •	•		
(1)		Phone / Fax / Letter		
(2)		Phone / Fax / Letter		
(3)		Phone / Fax / Letter		
	•			
RECEIPT				
Date Resub	omittal Data Received:			
	•	-		
VERIFICAT	ION			
		4		
Data Verifie	ed By:		Date Ventied	
Are the resubmittal data adequate? Yes/Mo If no, initiate another Data Resubmittal Tracking Form answedicate Request Continuance and this Form # at the top of it.				
Original Data Package Clew Copy-LTR, Pink Copy-Laboratory Contact				
Original Data Package Temos appy ETK, Filik Copy-Laboratory Contact				
<u></u>				
		Y_		
Laboratory	•		Project #:	
Laboratory	SDG/Batch#:			
	Identified By		Date Deficiency Identified:	
Date of Lak	boratory Contain (Fr	Top Half of Form):		
Fraction: Organics / Metals / Ragiochemistry / Water Quality Parameter:				
Describe the deficiency (Include Laboratory Sample #s and the Client Sample #s)				
		•		
	Original Data	Package Yellow Conv	-CTR. Pink Coov-Laboratory Contact	